

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| S1    | 441  | (filter and satellite and return near4 link)                                   | USPAT  | OR               | OFF     | 2011/05/19 18:04 |
| S2    | 888  | (filter and satellite and return near4 link)                                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:04 |
| S3    | 64   | (filter and satellite and return near4 link and sub near3 signal\$2)           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:04 |
| S4    | 30   | (filter and satellite and return near4 link and sub near3 signal\$2) and orbit | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:05 |
| S5    | 4124 | 455/12.1   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:07 |
| S6    | 2635 | 455/427  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:07 |
| S7    | 2240 | 455/428  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:07 |
| S8    | 347  | 455/11   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:07 |
| S9    | 3033 | 455/11.1   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:07 |
| S10   | 2181 | 455/13.1   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:07 |
| S11   | 1152 | 455/13.2   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:07 |
| S12   | 9723 | S5 S6 S7 S9 S10 S11  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2011/05/19 18:07 |
| S13   | 10   | (filter and satellite and return near4 link and sub near3                      | US-PGPUB; USPAT; USOCR; FPRS; EPO;                       | OR               | OFF     | 2011/05/19 18:08 |

|     |     |   |   |    |     |                     |
|-----|-----|---|---|----|-----|---------------------|
|     |     | signal\$2) and orbit and S12  | JPO; DERWENT;<br>IBM_TDB                                    |    |     |                     |
| S14 | 19  | 455/12.1 and filter near4 parameter   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2011/05/19<br>18:14 |
| S18 | 2   | 455/12.1 and filter near4 parameter and sub near4 signal\$2   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2011/05/25<br>14:49 |
| S19 | 0   | 455/12.1 and filter near4 parameter and sub near4 signal\$2 and forward near3 link same gateway                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2011/05/25<br>15:14 |
| S20 | 1   | filter near4 parameter and sub near4 signal\$2 and forward near3 link same gateway                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2011/05/25<br>15:15 |
| S21 | 97  | sub near4 signal\$2 and forward near3 link same gateway   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2011/05/25<br>15:15 |
| S22 | 175 | (satellite) and (center near3 frequenc\$3) same ( one near4 half)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/01/11<br>13:02 |
| S23 | 175 | (satellite) and (center near3 frequenc\$3) same (one near4 half)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/01/11<br>13:02 |
| S24 | 1   | (satellite) and (center near3 frequenc\$3) same ( one near4 half near4 bandwidth) same (frequenc\$4 near4 margin) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/01/11<br>13:03 |
| S25 | 1   | (satellite) and (center near3 frequenc\$3) same ( one near4 half near4 bandwidth) and (frequenc\$4 near4 margin)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/01/11<br>14:15 |
| S26 | 2   | "US 20040097192"  | US-PGPUB; USPAT; USOCR; DERWENT                             | OR | OFF | 2012/02/01<br>10:50 |
| S27 | 10  | satellite and (down-conver\$4 or downconver\$4) near5 sampl\$3 near5 (bandwidth or band-width or bw)              | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/02/01<br>11:06 |
| S30 | 17  | (filter and satellite and return near4 link) and center near4 frequency near4 bandwidth                           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/03/09<br>13:26 |
| S31 | 3   | (filter near4 parameter and satellite and return near4 link)  | USPAT   | OR | OFF | 2012/03/09<br>14:31 |
| S32 | 7   | (filter near4 parameter and satellite and return near4 link)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/03/09<br>14:31 |
| S33 | 29  | (filter near4 parameter and satellite and bandwidth near4 center near4 frequenc\$4)                               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/03/09<br>14:32 |

## EAST Search History

|     |    |  |  |    |     |                  |
|-----|----|--|--|----|-----|------------------|
| S34 | 64 | (satellite) and (center near3 frequency\$3) same ( one near4 half) and baseband                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/03/11 23:56 |
| S35 | 66 | (satellite) and (center near3 frequency\$3) same ( one near4 half) same bandwidth                              | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/03/11 23:59 |
| S36 | 66 | (satellite) and (center near3 frequency\$3) same ( one near4 half) same bandwidth\$2                           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/03/11 23:59 |
| S37 | 24 | (satellite) and (center near3 frequency\$3) same ( one near4 half) same bandwidth\$2 and down near3 convert\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/03/12 00:00 |

## EAST Search History (Interference)

| Ref # | Hits  | Search Query   | DBs                   | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|-----------------------|------------------|---------|------------------|
| L1    | 4565  | 455/12.1   | US-PGPUB; USPAT; UPAD | OR               | OFF     | 2012/08/24 15:51 |
| L2    | 0     | 455/1427   | US-PGPUB; USPAT; UPAD | OR               | OFF     | 2012/08/24 15:51 |
| L3    | 2943  | 455/427  | US-PGPUB; USPAT; UPAD | OR               | OFF     | 2012/08/24 15:51 |
| L4    | 2560  | 455/428  | US-PGPUB; USPAT; UPAD | OR               | OFF     | 2012/08/24 15:51 |
| L5    | 3565  | 455/11.1   | US-PGPUB; USPAT; UPAD | OR               | OFF     | 2012/08/24 15:51 |
| L6    | 2446  | 455/13.1   | US-PGPUB; USPAT; UPAD | OR               | OFF     | 2012/08/24 15:51 |
| L7    | 1265  | 455/13.2   | US-PGPUB; USPAT; UPAD | OR               | OFF     | 2012/08/24 15:51 |
| L8    | 11110 | 1 3 4 5 6 7  | US-PGPUB; USPAT; UPAD | OR               | OFF     | 2012/08/24 15:51 |
| L9    | 0     | 8 and (filter near4 parameter\$2 and satellite\$2 and downlink and sub0signal\$2).clm. | US-PGPUB; USPAT; UPAD | OR               | OFF     | 2012/08/24 15:53 |
| L10   | 1     | 8 and (filter near4 parameter\$2 and satellite\$2 and downlink and sub-                | US-PGPUB;             | OR               | OFF     | 2012/08/24 15:53 |

|     |   |  |                |    |     |                     |
|-----|---|--|----------------|----|-----|---------------------|
|     |   | signal\$2).clm.  | USPAT;<br>UPAD |    |     |                     |
| S15 | 0 | (filter and satellite and return near4 link and sub near3 signal\$2 and orbit).clm.                          | USPAT;<br>UPAD | OR | OFF | 2011/05/19<br>18:14 |
| S16 | 0 | (filter and return near4 link and sub near3 signal\$2 and orbit).clm.  | USPAT;<br>UPAD | OR | OFF | 2011/05/19<br>18:14 |
| S17 | 0 | (filter and return near4 link and sub near3 signal\$2).clm.  | USPAT;<br>UPAD | OR | OFF | 2011/05/19<br>18:14 |
| S28 | 4 | satellite and (down-conver\$4 or downconver\$4) near5 sampI\$3 near5 (bandwidth or band-width or bw)         | USPAT;<br>UPAD | OR | OFF | 2012/02/01<br>17:16 |
| S29 | 1 | (satellite\$2 and (down-conver\$4 or downconver\$4) and (bandwidth or band-width or bw) and traffic\$2).clm. | USPAT;<br>UPAD | OR | OFF | 2012/02/01<br>17:18 |

8/24/2012 3:54:09 PM

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